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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/049,173 02/08/2002		02/08/2002	Thomas Bayer	BAYER-3 (PCT)	7952
25889	7590	04/02/2004		EXAM	INER
WILLIAN			PANG, ROGER L		
COLLARI		E, P.C. I BOULEVARD	ART UNIT	PAPER NUMBER	
ROSLYN,			3681		
				DATE MAILED: 04/02/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	Applicant(s)				
•	000	10/049,173	BAYER, THOM	AS				
Office Action Summary		Examiner	Art Unit					
		Roger L Pang	3681	M				
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet wit	h the correspondence	address				
THE - External control	MORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO ensions of time may be available under the provisions of 37 CFF residual for reply specified above is less than thirty (30) days, a Deriod for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by streply received by the Office later than three months after the month adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ply be timely filed (30) days will be considered tin THS from the mailing date of this ANDONED (35 U.S.C. § 133).					
Status								
1)🛛	Responsive to communication(s) filed on 2	5 February 2004.						
2a)□	This action is FINAL . 2b) This action is non-final.							
3)[
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	tion of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>8 and 9</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) <u>8 and 9</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicat	tion Papers							
•	9)☐ The specification is objected to by the Examiner. 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to							
11\□	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
		s Examiner. Note the attached	Office Action of form	1 10-102.				
	under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmer	nt(s)							
1) Notic	ce of References Cited (PTO-892)		ummary (PTO-413)					
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB	/08) 5) Notice of Int)/Mail Date formal Patent Application (F	PTO-152)				
Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

The following action is in response to the RCE filed for application 10/049,173 on February 25, 2004.

Drawings

The drawings were received on January 26, 2004. These drawings are disapproved. The labeling on Figure 2 is incorrect, as the planet wheels do not span the width of the carrier (as established). It is suggested that the applicant submit 2 drawing similar to the proposed Fig. 2a, one being with wheels 7a-d, and the other one being with wheels 11a-d.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the 4 planet wheels around the circumference must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

The proposed drawing changes do not correctly illustrate the 4 planet wheels located around the circumference of the carrier.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ridgely '967. Ridgely teaches a three stage, speed-reducing planetary transmission having, in each stage, a driven sun wheel 11 rolling in an internal gear 15 and interacting with a planet wheel 16 mounted on a planet carrier 21, in which the sun wheels of the second and third stages are each driven by the planet carrier of the preceding stage, and fixed transmission housing 12, in which at least the internal gear of the third stage is rigidly connected with the transmission housing (Fig. 1) and the internal gears of the first and second stages are each rigidly connected with the transmission housing (Fig. 1), and in which, furthermore, the planet carriers of the second and third stages are each provided with four planet wheels in a circumferential direction (Fig. 2), characterized by the features: the internal gears have a number of teeth in all three stages, and the transmissions have ratios. Ridgely does not specifically teach the number of teeth to be 108 or the ratios of the second stage and third stage being 4 and 5.5, respectively. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Ridgely to employ specific number of teeth and specific ratios, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. In re Rose, 105 USPQ 237 (CCPA 1955).

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Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shirokoshi '968. Shirokoshi teaches a three stage, speed-reducing planetary transmission having, in each stage, a driven sun wheel 14,24,45 rolling in an internal gear 11,21,32 and interacting with a planet wheel 13,26, 41 mounted on a planet carrier 12,25,20, in which the sun wheels of the second and third stages are each driven by the planet carrier of the preceding stage, and fixed transmission housing 2, in which at least the internal gear of the third stage is rigidly connected with the transmission housing (Fig. 2) and the internal gears of the first and second stages are each rigidly connected with the planet carrier of the third stage (Fig. 2), and in which, furthermore, the planet carriers of the second and third stages are each provided with four planet wheels in a circumferential direction (Fig. 1), characterized by the features: the internal gears have a number of teeth in all three stages, and the transmissions have ratios. Shirokoshi does not specifically teach the number of teeth to be 108 or the ratios of the second stage and third stage being 4 and 5.5, respectively. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Shirokoshi to employ specific number of teeth and specific ratios, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. In re Rose, 105 USPQ 237 (CCPA 1955).

Response to Arguments

With regard to the Ridgely and Shirokoshi references, applicant appears to only argue the fact that the ratios that are claimed differ from the cited references. Therefore, the present inventions, as claimed, only differ from the cited art because different gear ratios are claimed.

To change the ratio used within such a planetary gear system only requires a change in size.

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Applicant argues that the claimed ratio gives "surprisingly" good results. Not only has a change in size been deemed obvious to one of ordinary skill in the art, but also has the discovery of an optimum range. *In re Aller*, 105 USPQ 233. Ridgely and Shirokoshi teach the claimed limitations of the present invention, but only lack the teaching of the specific claimed gear ratios. This is not considered the inventive concept that would clearly establish the present invention as non-obvious over the prior art. Applicant's arguments have been considered, but are not persuasive.

FACSIMILE TRANSMISSION

Submission of your response by facsimile transmission is encouraged. Group 3600's facsimile number is (703) 305-3597. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see MPEP 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check should not be submitting by facsimile transmission separately from the check.

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Responses submitted by facsimile transmission should include a Certificate of Transmission (MPEP 512). The following is an example of the format the certification might take:

(Signature)	-
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If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and MPEP 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roger L Pang whose telephone number is 703-305-0445. The examiner can normally be reached on 5:30am to 4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on 703-308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roger L Pang Patent Examiner Art Unit 3681

March 31, 2004